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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 3791	
09/768,657		01/24/2001	Francisco Cabrera	Mo-6151/MD-96-6		
157	7590	05/20/2003				
BAYER P			EXAMINER			
100 BAYER ROAD PITTSBURGH, PA 15205			•	SHEIKH, HU	SHEIKH, HUMERA N	
				. ART UNIT	PAPER NUMBER	
		•		1615		
				DATE MAILED: 05/20/2003	4)	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Og/766,657 CARRERA, FRANCISCO Exeminer Humera N. Sheikh 1615	·									
## Defice Action Summary ## Familiar			Application No.		Applicant(s)					
Humera N. Sheikh 1015	Office Action Comme		09/768,657		CABRERA, FRANCISCO					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period f r Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estations of time high be evaluate worth the processor of 3 CCR 1.18(a). In or event, however, may a reply be limely filed in the proof for early specified above is less than thirty (50) days, as reply within the statutory infortum of brinty (30) days will be considered trinely. If the period for reply specified above is less than thirty (50) days, as reply within the statutory infortum of brinty (30) days will be considered trinely. If the period for reply specified above, the martim entation proposed vallegation to become ABAP/CHEO (33 U.S.C. § 133). Period of the period for reply specified above, the martim entation proposed vallegation to become ABAP/CHEO (33 U.S.C. § 133). Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)sis/are pending in the application. 4) Claim(s)sis/are allowed. 6) Claim(s)sis/are allowed. 6) Claim(s)sis/are allowed. 7) Claim(s)sis/are allowed. 8) Claim(s)sis/are allowed. 10) The drawingle, filed on is/are: all_ accepted or bl objected to by the Examiner. 10) The proposed drawing correction filed on is/are: all_ accepted or bl objected to by the Examiner. 11 Darbon and any on request that any objection to the drawing(s) be hald in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: all_ accepted or bl objected to by the Examiner. 12 The propo	Office Action Summa	ary	Examiner		Art Unit					
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be waited wider the provisions of 37 CR 1.13(b). In no event, however, may a reply be limitly filed after SX (8) MCNTS from the mailing date of this communication. It is not to the provision of the control of the communication of the comm										
1) Responsive to communication(s) filed on 13 March 2003 (paper no.8). 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) pproved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The cath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in his National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). 16) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
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DETAILED ACTION

Status of the Application

Receipt of the request for extension of time (3 months), the Request for Continued Examination (RCE), the Associate Power of Attorney letter and the Amendment, all filed 03/13/03 is acknowledged.

Claims 1-8 are pending. Claims 1, 2, 6 and 8 have been amended. Claims 1-8 are rejected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Vetter et al. (US Pat. No. 5, 808,076).

Vetter et al. disclose solid oral preparations of micronized quinolone- or naphthyridonecarboxylic acids for use in feed formulations that mask bitter flavoring and fight bacterial infections in humans and animals (see reference column 1, lines 1-45); (column 2, lines 44-58); (column 3, lines 50-65); (column 5, lines 19-35) and claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-2 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vetter et al. (US Pat. No. 5,808,076).

As discussed above, Vetter teaches solid oral preparations of quinolone- or naphthyridonecarboxylic acids wherein the particles may be micronized form and are used in feed formulations that mask bitter flavoring and fight bacterial infections in humans and animals (see reference column 1, lines 1-45); (column 2, lines 44-58); (column 3, lines 50-65); (column 5, lines 19-35) and claims. The preparation also contains polyvinyl alcohols, polyethylene glycols and the like (col. 2, lines 49-58).

The instant claims are drawn to a solid phase dispersion comprising micronized quinolonecarboxylic acid or micronized naphthyridonecarboxylic acids in an insoluble matrix.

Vetter teaches at col. 3, lines 63-65, that if small particles are required, micronizing may be an option, for example by using an air impact, bead or trituration mill. Vetter also teaches sieving, grinding and granulation of particles at col. 3, lines 57-62. This meets the requirements of the instant generic claims, which require micronized quinolonecarboxylic acid or micronized naphthyridonecarboxylic acids, since Vetter teaches the option of micronizing to obtain smaller-sized particles. Furthermore, it would have been obvious to one of ordinary skill in the pharmaceutical art to conduct micronization of particles, if smaller particle sizes were desired, as this is routinely or conventionally practiced in the art.

Claims 1-2 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lange et al. (US Pat. No. 5,152,986) in view of Vetter et al. (US Pat. No. 5,808,876).

Lange teaches a solid oral preparation comprising quinolone- or naphthyridonecarboxylic acids, polyethylene glycols and polyvinyl alcohols for use in feed formulations, which mask bitter taste, improve the animal's intake and consumption of the feed formulation and fight bacterial infections in humans and animals (see reference column1, lines 1-11); (column 2, lines 48-66); (column 3, lines 36-47);

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(column 5, lines 10-32); (column 6, lines 19-26, 52-66); (column 11, lines 21-52); (column 12, lines 1-31).

Lange are deficient only in the sense that he does not explicitly teach micronized quinolone- or micronized naphthyridonecarboxylic acids.

Vetter teaches solid oral preparations of quinolone- or naphthyridonecarboxylic acids wherein the particles may be micronized form if small particles are required, for example by using an air impact, bead or trituration mill (col. 3, lines 63-65). Vetter also teaches sieving, grinding and granulation of particles at col. 3, lines 57-62.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the micronized quinolone- or micronized naphthyridonecarboxylic acids of Vetter within the solid preparation of Lange because Vetter teaches that micronizing may be an option if smaller particles are desired and similarly Lange teaches quinolone- or naphthyridonecarboxylic acids wherein as demonstrated in Example 7, the active substances are *comminuted* through a grater, dried and then sieved to the *desired particle size* (see col. 8, lines 11-27). The expected result would be an improved, micronized quinolone- or micronized naphthyridonecarboxylic acids solid formulation for use in animal feed.

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Claims 3-5 are reject d under 35 U.S.C. 103(a) as being unpatentable over Lange et al. (US Pat. No. 5,152,986) or Vetter et al. (US Pat. No. 5,808,876) in view of Pollinger et al. (US Pat. No. 5,695,784).

As discussed above, *Lange* teaches a solid oral preparation comprising quinolone- or naphthyridonecarboxylic acids, polyethylene glycols and polyvinyl alcohols for use in feed formulations, which mask bitter taste, improve the animal's intake and consumption of the feed formulation and fight bacterial infections in humans and animals (see reference column1, lines 1-11); (column 2, lines 48-66); (column 3, lines 36-47); (column 5, lines 10-32); (column 6, lines 19-26, 52-66); (column 11, lines 21-52); (column 12, lines 1-31).

Vetter teaches a solid, homogeneously dispersed oral preparation comprising micronized quinolone- or micronized naphthyridonecarboxylic acids, polyethylene glycols and polyvinyl alcohols for use with taste-sensitive animals for the treatment of bacterial infections (see reference column 1, lines 1-45); (column 2, lines 44-58); (column 3, lines 50-65); (column 5, lines 19-35); and claims.

Lange or Vetter are lacking only in the teachings of shellac in the quinolonecarboxylic acid formulation. It is well within the skill of the pharmaceutical art that various binders and film-forming agents can be implemented, in combination, to

increase the mechanical stability and strength of oral preparations. Such skill is also evident from the reference of Pollinger et al. (see below).

Pollinger teaches flavor-masked pharmaceutical compositions comprising naphthyridone- and quinolone-carboxylic acid in combination with shellac, polyethylene glycol and polyvinyl alcohol for example (see reference column 1, lines 30-67); (column 4, lines 9-59); (column 5, lines 7-15, 45-53).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use shellac in combination with quinolone- or naphthyridonecarboxylic acids to mask ill-flavored compositions in feed or foodstuff applications because Pollinger teaches shellac as a suitable ingredient in the naphthyridone- and quinolone-carboxylic acid formulation and similarly, Lange and Vetter teach naphthyridone- and quinolone-carboxylic acid preparations for use in animal feed to mask ill-flavored tastes. The expected result would be an improved tasting, therapeutic composition for the treatment of bacterial infections in humans and animals.

Lange or Vetter do not teach the instantly claimed ratios. However, in the absence of showing the criticality, it is deemed obvious to one of ordinary skill in the art that suitable ranges could be obtained through routine or manipulative experimentation, as these are viewed as variable parameters, in order to obtain the best possible results.

Applicant's arguments filed 03/13/03 have been fully considered and were found

to be persuasive with regards to the 35 USC 102(b) rejections over Lange et al.

The applicant argued in regards to the 35 USC 102(b) rejections of Lange,

stating, "Lange et al. disclose ion exchange resins which are loaded with

quinolonecarboxylic acid derivatives. However, Lange et al. does not disclose

micronized quinolonecarboxylic acid nor micronized naphthyridonecarboxylic acid.

Furthermore, Lange does not disclose a method of preparing a solid dispersion by

forming a hydrate of micronized quinolonecarboxylic acid or micronized

naphthyridonecarboxylic acid.

This argument was found to be persuasive and as such, the 35 U.S.C. 102(b)

rejections over Lange have been withdrawn.

Secondly, the applicant argued regarding the 35 U.S.C. 102(b) rejections of

Vetter et al., stating, "Vetter et al. discloses preparation of a formulation of

quinolonecarboxylic acid or naphthyridonecarboxylic acid and embonic acid. However,

Vetter does not teach or disclose micronized quinolonecarboxylic acid nor micronized

naphthyridonecarboxylic acid. Furthermore, Vetter does not disclose a method of

preparing a solid dispersion by forming a hydrate of micronized quinolonecarboxylic

acid or micronized naphthyridonecarboxylic acid.

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This argument has been fully considered, but was not found to be persuasive. Vetter discloses solid oral preparation comprising auinoloneа or naphthyridonecarboxylic acids for use in feed formulations, which mask bitter flavoring and fight bacterial infections in humans and animals. Additionally, Vetter discloses at column 3, lines 63-65, that if particularly small particles are required, micronizing may be an option, for example by using an air impact, bead or trituration mill. Vetter also discloses at col. 3, lines 57-62, that the formulation is sieved, ground, and granulated. which are suitable methods for preparation. As such, Vetter recognizes that the particle formulations of quinolonecarboxylic acid or naphthyridonecarboxylic acid can be in a micronized form and therefore the instant claims are anticipated by the prior art of Vetter.

Lastly, the applicant argued regarding the 35 U.S.C. 103(a) rejections of Lange et al. or Vetter et al. in view of Pollinger et al., stating, "The deficiencies of Lange and Vetter are not remedied by Pollinger et al. Pollinger does not teach or suggest micronized quinolonecarboxylic acid or micronized naphthyridonecarboxylic acid. One skilled in the art would not have been motivated to use micronized quinolonecarboxylic acid or micronized naphthyridonecarboxylic acid to mask ill-flavored compositions with the expected result of obtaining improved tasting therapeutic compositions."

This argument has been fully considered, but was not found to be persuasive.

The prior art teaches formulations comprising quinolonecarboxylic acid or naphthyridonecarboxylic acid. Moreover, Vetter et al. discloses a preparation

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comprising quinolone- or naphthyridonecarboxylic acids, wherein if smaller particles are

desired, the particles can be in micronized form. Similarly Lange teaches solid

preparations containing quinolonecarboxylic acid for use in feedstuffs, as similarly

desired by the applicant. Pollinger et al. was relied upon for the generic teaching of the

use of shellacs in flavor-masking compositions containing quinolonecarboxylic acid or

napthyridonecarboxylic acid and therefore resolves the only deficiency in Lange or

Vetter. As such, the instant claims are rendered obvious and unpatentable over the

prior art.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Humera N. Sheikh whose telephone number is (703)

308-4429. The examiner can normally be reached on Monday through Friday from

7:00A.M. to 4:30P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman Page, can be reached on (703) 308-2927. The fax phone number

for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1235.

hns

May 19, 2003

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